

# Interference Search Report 09/04, 427

L9	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and predetermined.clm. and program.clm. and absolute.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:01
L10	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and predetermined.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:02
L11	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:02
L12	3	authenticat\$3.clm. and playback.clm. and rule\$1.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:02

updated Search Report 09/404,427

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"5559231".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:01
L2	2	"5569231".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:01
L3	2	"5559231".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:02
L4	7134	hibino.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:02
L5	10	4 and authenticat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:04
L6	9	"0901123"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:55
L7	142	380/232	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:58
L8	2	726/2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 15:58

L9	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and predetermined.clm. and program.clm. and absolute.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:01
L10	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and predetermined.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:02
L11	0	authenticat\$3.clm. and playback.clm. and "recording medium".clm. and rule\$1.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:02
L12	3	authenticat\$3.clm. and playback.clm. and rule\$1.clm. and program.clm. and execut\$4.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:03
L13	0	authenticat\$3 and playback and rule\$1 and program and execut\$4 and predetrmin\$4 and execut\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:04
L14	1142	authenticat\$3 and playback and rule\$1 and program and execut\$4 and execut\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:04
L15	879	14 and predetermin\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:04
L16	477	15 and arbit\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:05

L17	477	16 and program and execut\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:05
L18	2371	713/167 or 713/169 or 713/193 or 380/200 or 380/232 or 726/2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:06
L19	24	17 and 18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/09 16:06

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**1** High-level language debugging for concurrent programs

German S. Goldszmidt, Shaula Yemini

 November 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 4
**Publisher:** ACM PressFull text available: [pdf\(2.09 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An integrated system design for debugging distributed programs written in concurrent high-level languages is described. A variety of user-interface, monitoring, and analysis tools integrated around a uniform process model are provided. Because the tools are language-based, the user does not have to deal with low-level implementation details of distribution and concurrency, and instead can focus on the logic of the program in terms of language-level objects and constructs. The tools provide ...

**Keywords:** distributed debugging, language independence, portability, temporal logic**2** PL360, a Programming Language for the 360 Computers

Niklaus Wirth

 January 1968 **Journal of the ACM (JACM)**, Volume 15 Issue 1
**Publisher:** ACM PressFull text available: [pdf\(2.25 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A programming language for the IBM 360 computers and aspects of its implementation are described. The language, called PL360, provides the facilities of a symbolic machine language, but displays a structure defined by a recursive syntax. PL360 was designed to improve the readability of programs which must take into account specific characteristics and limitations of a particular computer. It represents an attempt to further the state of the art of programming by encouraging and even forcing ...

**3** Fortran 8X draft

Loren P. Meissner

 December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
**Publisher:** ACM PressFull text available: [pdf\(21.36 MB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Standard Programming Language Fortran.** This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

**4 Parallelizing programs with APs**

 A. B. Godlevsky, A. E. Doroshenko

 August 1993 **Proceedings of the 1993 international symposium on Symbolic and algebraic computation**

**Publisher:** ACM Press

Full text available:  pdf(806.08 KB) Additional Information: [full citation](#), [references](#), [index terms](#)



**5 Expression continuity and the formal differentiation of algorithms**

 Bob Paige, J. T. Schwartz

 January 1977 **Proceedings of the 4th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

**Publisher:** ACM Press

Full text available:  pdf(844.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



This paper explores the technique of 'strength reduction' or 'formal differentiation' in a set theoretic context, as recently introduced by Earley. We give pragmatic rules for the recognition and treatment of reasonably general cases in which the optimization is applicable, and consider some of the problems which arise in actually attempting to install this optimization as part of a compiling system.

**6 An Assessment of Techniques for Proving Program Correctness**

 Bernard Elspas, Karl N. Levitt, Richard J. Waldinger, Abraham Waksman

 June 1972 **ACM Computing Surveys (CSUR)**, Volume 4 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(4.36 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**7 Using indexed data structures for program specialization**

 Jung Gyu Park, Myong-Soon Park

 September 2002 **Proceedings of the ASIAN symposium on Partial evaluation and semantics-based program manipulation**

**Publisher:** ACM Press

Full text available:  pdf(201.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Given a program and values of static (fixed) inputs, program specialization generates an optimized version of the program that only requires dynamic (run-time) inputs. It has been an useful tool for such areas as operating systems, multimedia applications, and scientific applications. However, the size of specialized code may grow up exponentially which makes program specialization impractical for many applications. In this paper, we present a mechanism to address this problem by using indexed d ...

**Keywords:** automated software engineering, partial evaluation, program specialization, staged computation optimization

**8 Nondeterminism in logics of programs**

◆ David Harel, Vaughan R. Pratt  
January 1978 **Proceedings of the 5th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

**Publisher:** ACM Press

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We investigate the principles underlying reasoning about nondeterministic programs, and present a logic to support this kind of reasoning. Our logic, an extension of dynamic logic ([22] and [12]), subsumes most existing first-order logics of nondeterministic programs, including that developed by Dijkstra based on the concept of weakest precondition. A significant feature is the strict separation between the two kinds of nonterminating computations: infinite computations and failures. The logic h ...

9 Anomaly detection in concurrent programs

G. Bristow, C. Drey, B. Edwards, W. Riddle

September 1979 **Proceedings of the 4th international conference on Software engineering**

**Publisher:** IEEE Press

Full text available:  pdf(813.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An approach to the analysis of concurrent software is discussed. The approach, called anomaly detection, involves the algorithmic derivation of information concerning potential errors and the subsequent, possibly non-algorithmic determination of whether or not the reported anomalies are actual errors. We give overviews of algorithms for detecting data-usage and synchronization anomalies and discuss how this technique may be integrated within a general software develop ...

10 Internet-based workflows: a paradigm for dynamically reconfigurable desktop

◆ environments

Hemang Lavana, Amit Khetawat, Franc Brglez

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge**

**Publisher:** ACM Press

Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Internet, Petri net, collaborative, desktop, reconfigurable, recordable, workflows

11 Concurrent dynamic logic

◆ David Peleg

April 1987 **Journal of the ACM (JACM)**, Volume 34 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(2.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this paper concurrent dynamic logic (CDL) is introduced as an extension of dynamic logic tailored toward handling concurrent programs. Properties of CDL are discussed, both on the propositional and first-order level, and the extension is shown to possess most of the desirable properties of DL. Its relationships with the &mgr;-calculus, game logic, DL with recursive procedures, and PTIME are further explored, revealing natural connections between concurrency, recursion, and alternation.

12 Executable workflows: a paradigm for collaborative design on the Internet

Hemang Lavana, Amit Khetawat, Franc Brglez, Krzysztof Kozminski

 **June 1997 Proceedings of the 34th annual conference on Design automation - Volume 00**

**Publisher:** ACM Press

Full text available:  [pdf\(358.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

This paper introduces a directed hypergraph model that supports (1) workflow composition and reconfiguration while accessing and executing programs, data, and computing resources across the Internet, (2) synchronous and asynchronous peer-to-peer interaction between members of any team during workflow composition and execution, (3) synchronous and asynchronous peer-to-workflow interaction between any team member and any object in the workflow. Given a library of program and data nodes, editing the workflow ...

**13** [Event notification in data-driven coordination languages: comparing the ordered and unordered interpretations](#) 

 **Nadia Busi, Gianluigi Zavattaro**

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**

**Publisher:** ACM Press

Full text available:  [pdf\(626.69 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Java coordination middlewares, coordination models and languages, event notification, expressiveness of concurrent languages, shared data space

**14** [Generation of run-time environments](#) 

 **Gail E. Kaiser**

July 1986 **ACM SIGPLAN Notices , Proceedings of the 1986 SIGPLAN symposium on Compiler construction SIGPLAN '86**, Volume 21 Issue 7

**Publisher:** ACM Press

Full text available:  [pdf\(735.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Attribute grammars have been used for many years for automated compiler construction. Attribute grammars support the description of semantic analysis, code generation and some code optimization in a formal declarative style. Other tools support the automation of lexical analysis and parsing. However, there is one large part of compiler construction that is missing from our toolkit: run-time environments. This paper introduces an extension of attribute grammars that supports the generation of ...

**15** [Enforceable security policies](#) 

 **Fred B. Schneider**

February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(148.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A precise characterization is given for the class of security policies enforceable with mechanisms that work by monitoring system execution, and automata are introduced for specifying exactly that class of security policies. Techniques to enforce security policies specified by such automata are also discussed.

**Keywords:** EM security policies, SASI, inlined reference monitors, proof carrying code, safety properties, security automata, security policies

16 Data-Driven and Demand-Driven Computer Architecture

 Philip C. Treleaven, David R. Brownbridge, Richard P. Hopkins  
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(4.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Extracting usability information from user interface events

 David M. Hilbert, David F. Redmiles  
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminous and rich in detail, automated support is generally ...

**Keywords:** human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

18 A Survey of Some Theoretical Aspects of Multiprocessing

 J. L. Baer  
March 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(4.05 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Lowering the barriers to programming: A taxonomy of programming environments

 and languages for novice programmers  
Caitlin Kelleher, Randy Pausch  
June 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(14.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Since the early 1960's, researchers have built a number of programming languages and environments with the intention of making programming accessible to a larger number of people. This article presents a taxonomy of languages and environments designed to make programming more accessible to novice programmers of all ages. The systems are organized by their primary goal, either to teach programming or to use programming to empower their users, and then, by each system's authors' approach, to makin ...

**Keywords:** Human-computer interaction, computer Science education, learning, literacy, problem solving

20 Special issue: AI in engineering

D. Sriram, R. Joobbani

 April 1985 **ACM SIGART Bulletin**, Issue 92

**Publisher:** ACM Press

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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#### 1. A new look-ahead code for increased data density

Jacoby, G.;  
Magnetics, IEEE Transactions on

Volume 13, Issue 5, Sep 1977 Page(s):1202 - 1204

**Summary:** This paper describes a novel run-length limited code, termed 3PM. data bits is converted into six code bits which are represented by the presence signal transitions. At least two zeros are maintained between two consecu.....

[AbstractPlus](#) | Full Text: [PDF\(408 KB\)](#) IEEE JNL

#### 2. Design and characterization of a quadrilayer magneto-optic disk

McDaniel, T.W.; Finkelstein, B.I.; Williams, W.C.;  
Magnetics, IEEE Transactions on  
Volume 24, Issue 6, Nov 1988 Page(s):2467 - 2469  
Digital Object Identifier 10.1109/20.92143

**Summary:** The use of quadrilayer film structures can maximize the magnetooptical reflected light used for readout in optical data storage. A computer program and an optical model have been utilized to search for optimized quadrilayer stru.....

[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE JNL

#### 3. The effect of slider on lubricant loss and redistribution [HDDs]

Xiading Ma; Huan Tang; Stirnimann, M.; Jing Gui;  
Magnetics Conference, 2002. INTERMAG Europe 2002. Digest of Technical Papers  
International

28 April-2 May 2002 Page(s):BQ10

Digital Object Identifier 10.1109/INTMAG.2002.1000861

**Summary:** Summary form only given. The behavior of a molecularly thin lubricating film flying head has recently gained increasing attention due to its critical role in determining tribological performance, as well as the recording performance, of a hard disk.....

[AbstractPlus](#) | Full Text: [PDF\(224 KB\)](#) IEEE CNF

#### 4. Storing digital video using an advanced optical storage device: data allocation simultaneous record and playback

Luitjens, S.B.; Van Gelder, K.; Blacquie, J.F.; Kelly, D.P.; Kato, M.;  
Consumer Electronics, 2001. ICCE. International Conference on  
19-21 June 2001 Page(s):256 - 257

Digital Object Identifier 10.1109/ICCE.2001.935299

**Summary:** Optical disc based video recorders have become available. We discuss the application format for a system based on an advanced optical rewritable system. The high rate and capacity of the system enable recording of HDTV and new features.....

[AbstractPlus](#) | Full Text: [PDF\(156 KB\)](#) IEEE CNF

**5. Temporal knowledge bases**  
Noble, H.;  
Very Large Knowledge-Based Systems, IEE Colloquium on  
1 Jun 1990 Page(s):7/1 - 7/3  
**Summary:** Traditionally a database represents a 'snap-shot' of the world. When and values change, the database is 'updated' to reflect these changes and the is overwritten. However, this practice has a number of drawbacks which ar.....  
[AbstractPlus](#) | Full Text: [PDF\(132 KB\)](#) IEEE CNF

**6. On noise in digital recording**  
Hughes, G.; Schmidt, R.;  
Magnetics, IEEE Transactions on  
Volume 12, Issue 6, Nov 1976 Page(s):752 - 754  
**Summary:** A set of rules, equations and relations are given for the effects of statistical noise on digital recorders. Simple formulas, intended for laboratory use, give the change in signal to noise ratio (SNR) caused by the channel. Bit.....  
[AbstractPlus](#) | Full Text: [PDF\(328 KB\)](#) IEEE JNL

**7. A generalized frequency domain nonlinearity measurement method**  
Xiaodong Che; Peek, M.J.; Fitzpatrick, J.;  
Magnetics, IEEE Transactions on  
Volume 30, Issue 6, Part 1-2, Nov 1994 Page(s):4236 - 4238  
Digital Object Identifier 10.1109/20.334046  
**Summary:** In this paper, we discuss an accurate and effective nonlinearity measurement method that is generalized from the frequency domain method proposed by Y.-K. Tsang(1991). The new method discussed here offers the following features. It.....  
[AbstractPlus](#) | Full Text: [PDF\(260 KB\)](#) IEEE JNL

**8. DVD players using a Viterbi decoding circuit**  
Hayashi, H.; Kobayashi, H.; Umezawa, M.; Hosaka, S.; Hirano, H.;  
Consumer Electronics, IEEE Transactions on  
Volume 44, Issue 2, May 1998 Page(s):268 - 272  
Digital Object Identifier 10.1109/30.681937  
**Summary:** We have developed a Viterbi decoding circuit which is suitable for I designed it to be compact and efficient by utilizing the rule of the DVD recording. In experiment, we confirmed that the Viterbi decoder reproduced digital data in.....  
[AbstractPlus](#) | Full Text: [PDF\(616 KB\)](#) IEEE JNL

**9. Hierarchical storage management: leveraging new capabilities**  
Lugar, J.;  
IT Professional  
Volume 3, Issue 2, March-April 2001 Page(s):53 - 55  
Digital Object Identifier 10.1109/6294.918223  
**Summary:** E-commerce has created new problems in data management as it swells a business' database into the terabytes. IT shops must efficiently manage a rock-solid system with guaranteed 24/7 access. Finding a way to.....  
[AbstractPlus](#) | Full Text: [PDF\(244 KB\)](#) IEEE JNL

**10. Storing digital broadcast signals using an advanced optical storage device allocation and simultaneous record and playback**  
Luitjens, S.B.; Blacquiere, J.F.R.; van Gelder, K.; Kelly, D.P.; Kato, M.;  
Consumer Electronics, IEEE Transactions on  
Volume 48, Issue 1, Feb. 2002 Page(s):99 - 107  
Digital Object Identifier 10.1109/TCE.2002.1010097  
**Summary:** Optical disc based video recorders have recently become available and discusses the application format for a system based on an advanced optical recording device (DVR-blue). The format is especially suited for broadcast recording. The high r.....  
[AbstractPlus](#) | Full Text: [PDF\(568 KB\)](#) IEEE JNL

**11. PRML process of multilevel run-length-limited modulation recording on c**  
Sun-How Jiang; Feng-Hsiang Lo;  
Magnetics, IEEE Transactions on  
Volume 41, Issue 2, Feb. 2005 Page(s):1070 - 1072  
Digital Object Identifier 10.1109/TMAG.2004.842015  
**Summary:** We introduce partial-response maximum-likelihood (PRML) signal increase the accuracy of reading multilevel signal from a multilevel run-length-recorded disc. The reason is that the traditional slicer detection is no longer.....  
[Abstract](#)[Plus](#) | Full Text: [PDF\(336 KB\)](#) | [IEEE JNL](#)

**12. Performance evaluation of the channelized Hotelling observer using boot**  
PET studies  
Groiselle, C.J.; D'Asseler, Y.; Gifford, H.C.; Glick, S.J.;  
Nuclear Science Symposium Conference Record, 2003 IEEE  
Volume 4, 19-25 Oct. 2003 Page(s):2511 - 2515 Vol.4  
**Summary:** This study investigated whether list-mode PET data generated usir method can be used to predict lesion detectability as assessed by the channel observer (CHO). A Monte-Carlo simulator was used to generate 2D PET list-m  
[Abstract](#)[Plus](#) | Full Text: [PDF\(605 KB\)](#) | [IEEE CNF](#)

**13. Functional hard-coat for cartridge-free DVR-blue**  
Hayashida, N.; Hirata, H.; Komaki, T.; Usami, M.; Ushida, T.; Inoue, H.; Kato, T.; Utsunomiya, H.;  
Optical Memory and Optical Data Storage Topical Meeting, 2002. International  
7-11 July 2002 Page(s):12 - 14  
Digital Object Identifier 10.1109/OMODS.2002.1028551  
**Summary:** Optical discs with larger storage capacity and higher data recording required for the coming digital network society, for example, to realize non-line long term data archiving on broadcasting tasks. We have been developing a n  
[Abstract](#)[Plus](#) | Full Text: [PDF\(247 KB\)](#) | [IEEE CNF](#)

**14. DVD players using a Viterbi decoding circuit**  
Hayashi, H.; Kobayashi, H.; Umezawa, M.; Hosaka, S.; Hirano, H.;  
ISCE '97 - Proceedings of 1997 IEEE International Symposium on Consumer I  
2-4 Dec. 1997 Page(s):95 - 98  
Digital Object Identifier 10.1109/ISCE.1997.658360  
**Summary:** We have developed a Viterbi decoding circuit which is suitable for designed it to be compact and efficient by utilizing the rule of the DVD recordin experiment, we confirmed that the Viterbi decoder reproduced digital data m...  
[Abstract](#)[Plus](#) | Full Text: [PDF\(344 KB\)](#) | [IEEE CNF](#)

**15. Using neural-fuzzy in control applications**  
Giles, M.; Rahman, S.;  
WESCON/94. 'Idea/Microelectronics'. Conference Record  
27-29 Sept. 1994 Page(s):337 - 341  
Digital Object Identifier 10.1109/WESCON.1994.403575  
**Summary:** Fuzzy logic is gaining widespread acceptance in the control engine because of its continued success in control applications. However, certain inhe the approach are restricting its growth. Difficulties include: devel.....  
[Abstract](#)[Plus](#) | Full Text: [PDF\(384 KB\)](#) | [IEEE CNF](#)

**16. Maximum recording density obtainable in particulate media**  
Speliotis, D.;  
Magnetics, IEEE Transactions on  
Volume 16, Issue 1, Jan 1980 Page(s):30 - 35  
**Summary:** The recording density that has already been achieved with particul undoubtedly exceeds even the most optimistic expectations of most researche who, long before the present state of development, had anticipated their replac

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17. **The actuator in high performance disk drives: Design rules for minimum**  
Wagner, J.;  
Magnetics, IEEE Transactions on  
Volume 19, Issue 5, Sep 1983 Page(s):1686 - 1688  
**Summary:** -A moving coil actuator for a high performance disk drive is simulated. The effect of parameter variations on average access time, A group of sensitive parameters are identified. There is an optimum force factor which minimizes access time for.....  
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18. **A survey of recent research in Image database management**  
Arndt, T.;  
Visual Languages, 1990., Proceedings of the 1990 IEEE Workshop on  
4-6 Oct. 1990 Page(s):92 - 97  
Digital Object Identifier 10.1109/WVL.1990.128388  
**Summary:** Research in the area of image database management is surveyed. The publication dates of 1984-1990 are covered. The impact of technologies such as storage, digital video, and high-speed local area networks is explored. Program

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